



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4777-1

Job Sheet 184972



Part No: D4777-1

Job Qty: 10 ea

Part Name: Rod End Bearing



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 10/19/18

Job Tracking No:

Due Date: 11/9/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG REV A IPP REV:A 12.10.03 NEW ISSUE DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	10 pcs		11/9/18	0.00	0.00	Purchasing		OCT 29 2018
110	Packaging	10 pcs		11/9/18	0.00	0.00	Packaging2		OCT 29 2018
120	QC	10 pcs		11/9/18	0.00	0.00	QC6		OCT 30 2018
130	Packaging	10 pcs		11/9/18	0.00	0.00	Packaging3-2		OCT 30 2018
140	QC21-SA	10 Ea		11/9/18	0.00	0.00	QC21		OCT 30 2018

Part Op 100 - Issue P/O: 41443 Purchase Part Number: 59915K274 or CTG
Descriptions: 110 - Ensure certificate of conformity is attached

OCT 24 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
59915K274	Rod End Bearing D4777-1	10 pcs (1 ea)	100-Purchasing	5122101

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	59915K274	10	0	0

Part Specifications

Specifications could not be found.

Plex 10/19/18 11:43 AM Dart.lajeunesse.marie



Container No: S122103



Part: D4777-1

Job No: 184972

Serial No/Batch: S122103

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 10/29/18

DQA: _____ Date: _____



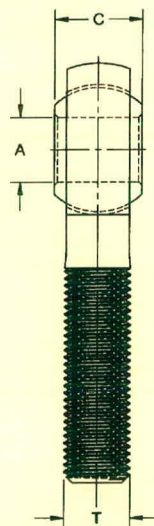
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

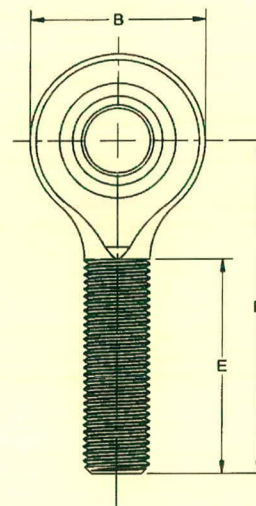
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

SPECIFICATION CONTROL DRAWING



ROD END BEARING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 184912 MJS
181019

DART P/N	HOUSING MATERIAL	A	B	C	D	E	T (THREAD SIZE)	SUGGESTED SUPPLIER	SUGGESTED SUPPLIER P/N
D4777-1	STAINLESS STEEL	Ø 0.38	1.00	0.500	1.94	1.25	3/8-24 (RIGHT HAND)	MC MASTER CARR	59915K274

RELEASED
2013-08-14

A	NEW ISSUE	AJS	13.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>[Signature]</i>	D4777	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	ROD END BEARING	NTS
DATE	13.08.08	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041445**

Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO041445

PO Date: 10/24/18

Due Date: 10/29/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

E-MAILED
OCT 25 2018

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	185256	9833K21		Breather Vent	Firmed	-	10/29/18	10 Ea	0 Ea	10 Ea	\$1.27/Ea	\$12.70
Line Item Note as per dwg d5540 rev. a												
2	184972	59915K274		Rod End Bearing D4777-1	Firmed	-	10/29/18	10 pcs	0 pcs	10 pcs	\$19.05/pcs	\$190.50
Line Item Note as per dwg d4777 rev. a												
3		2-230	9452K69 100/PK	O-Ring	Firmed	-	10/29/18	100 Ea	0 Ea	100 Ea	\$0.1552/Ea	\$15.52
4		91263A353	10/pk	Countersunk Screw	Firmed	-	10/29/18	20 Ea	0 Ea	20 Ea	\$0.721/Ea	\$14.42
5		MT-BRASS-C360-R1.000	8953K98 3ft	Brass C360 Round Bar 1.000" : MATERIAL: C360 BRASS ASTM B16	Firmed	-	10/29/18	3 ft	0 ft	3 ft	\$24.7733/ft	\$74.32
6		3712T36	1/pk	Pear-Shaped Threaded Connecting Link, SS 1/2" Thickness	Firmed	-	10/29/18	4 Ea	0 Ea	4 Ea	\$59.08/Ea	\$236.32
7		8982K31	8 ft long	6061 Aluminum 90 Degree Angle	Firmed	-	10/29/18	8 ft	0 ft	8 ft	\$6.01875/ft	\$48.15
8		92373A149	100/pk	Roll Pin 3/32" X 1"	Firmed	-	10/29/18	100 Ea	0 Ea	100 Ea	\$0.0545/Ea	\$5.45
9		2214A5	1/pk	Magnetic Base	Firmed	-	10/29/18	4 Ea	0 Ea	4 Ea	\$33.73/Ea	\$134.92
10		8662A61	1/pk	Dial Indicator with Certificate 0" to 1.000" Range X 0.001" Increments receive ea	Firmed	-	10/29/18	4 Ea	0 Ea	4 Ea	\$96.43/Ea	\$385.72
11		95475A105	25/pk	Threaded Stud	Firmed	-	10/29/18	25 Ea	0 Ea	25 Ea	\$0.3572/Ea	\$8.93
12		93286A044	5/pk	Flat Washer 1/4" ID receive ea	Firmed	-	10/29/18	25 Ea	0 Ea	25 Ea	\$1.266/Ea	\$31.65
13		94191A250	25 /pk	Steel Hex Nut 5/16"-24	Firmed	-	10/29/18	25 Ea	0 Ea	25 Ea	\$0.3844/Ea	\$9.61

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Tel (613) 632-5200

PURCHASE ORDER **PO041445**

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
14		90081A107	100/pk	Drive Screw #4 5/16" Long	Firmed	-	10/29/18	100 Ea	0 Ea	100 Ea	\$0.0298/Ea	\$2.98
15		90081A074	100/pk	0.125 X 0.500 Drive Screw receive ea	Firmed	-	10/29/18	100 Ea	0 Ea	100 Ea	\$0.0367/Ea	\$3.67
16		91595A112	50/pk	Dowel Pin ØM3 x 12mm receive ea	Firmed	-	10/29/18	100 Ea	0 Ea	100 Ea	\$0.1572/Ea	\$15.72
17		3555T51		Shackle 1/2", 4400 Lbs	Firmed	-	10/29/18	6 Ea	0 Ea	6 Ea	\$36.52/Ea	\$219.12
18		3896T31	50/pk	Ferule 1/16 X 3/8" - Aluminum	Firmed	-	10/29/18	200 Ea	0 Ea	200 Ea	\$0.1312/Ea	\$26.24
19		MDELINR1.625W	8572K26 3 ft	M Delrin Round Bar, White : MATERIAL: DELRIN II 150E OR ACETRON GP ACETAL receive ft	Firmed	-	10/29/18	6 ft	0 ft	6 ft	\$13.07/ft	\$78.42
20		MDELINR3.500W	8572K35	Delrin Round Bar, White R3.500"	Firmed	-	10/29/18	5 ft	0 ft	5 ft	\$68.00/ft	\$340.00
21		MPTFES0.040	8545K202 2 SF	Polytetrafluoroethylene Molded Sheet	Firmed	-	10/29/18	2 sf	0 sf	2 sf	\$25.07/sf	\$50.14
Line Item Note 1 pcs of 12" x 24"												
22		94895A815	100/pk	Hex Nut, Steel 3/8" ID x 5/8" OD	Firmed	-	10/29/18	100 Ea	0 Ea	100 Ea	\$0.0755/Ea	\$7.55
23		3339T2	1/pk	Web Sling Protector	Firmed	-	10/29/18	8 Ea	0 Ea	8 Ea	\$12.20/Ea	\$97.60
24		91280A334	100/pk	Hex Head Cap Screw	Firmed	-	10/29/18	100 Ea	0 Ea	100 Ea	\$0.1173/Ea	\$11.73
25		90591A151	100/pk	Nuts	Firmed	-	10/29/18	100 Ea	0 Ea	100 Ea	\$0.0237/Ea	\$2.37
26		3001T54	1/pk	Turnbuckle, Jaw to Jaw	Firmed	-	10/29/18	10 Ea	0 Ea	10 Ea	\$28.94/Ea	\$289.40
27		91732A233	10/pk	Threaded Insert 5/16-24 Unf X 15/32 receive ea	Firmed	-	10/29/18	30 Ea	0 Ea	30 Ea	\$0.614/Ea	\$18.42
28		92185A673	1/pk	Screw 3/8-24 Unf	Firmed	-	10/29/18	6 Ea	0 Ea	6 Ea	\$3.55/Ea	\$21.30
29		98017A200	100/pk	Washer	Firmed	-	10/29/18	100 Ea	0 Ea	100 Ea	\$0.0982/Ea	\$9.82
30		98017A660	500/pk	Flat Washer	Firmed	-	10/29/18	500 Ea	0 Ea	500 Ea	\$0.01376/Ea	\$6.88

Grand Total: \$2,369.57



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PURCHASE ORDER
PO041445

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY
A016 PERSONNEL QUALIFICATION
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 DOCUMENT SPECIAL REQUIREMENTS
A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/24/18 2:23 PM dart.lavoie.chantal



McMASTER-CARR®

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO041445
Order Placed By
Chantal Lavoie

Page 1 of 2
10/25/2018

McMaster-Carr Number
3134041-04

Line	Product	Ordered	Shipped
1	9833K21 Breather Vent, Nickel-Plated Steel, 1/8 NPT Male	10 Each	10 ✓
2	59915K274 Corrosion-Resistant Ball Joint Rod End, 3/8"-24 Thread, Right Hand	10 Each	10 ✓
3	9452K69 Oil-Resistant Buna-N O-Ring, 1/8 Fractional Width, Dash Number 230, Packs of 100	1 Pack	1
4	91263A353 Zinc-Plated Alloy Steel Hex Drive Flat Head Screw, 5/16"-24 Thread Size, 1" Long, Packs of 10	2 Packs	2
6	3712T36 Pear-Shaped Threaded Connecting Link, Type 316 Stainless Steel, 1/2" Thickness, Not for Lifting	4 Each	4
7	92373A149 18-8 Stainless Steel Slotted Spring Pin, 3/32" Diameter, 1" Long, Packs of 100	1 Pack	1
8	2214A5 Jointed-Arm Magnetic-Base Indicator Holder with 132 lb. Magnetic Pull	4 Each	4
10	95475A105 Low-Strength Threaded Rods, Zinc-Plated Steel, 1/4"-28 Thread Size, 1-1/2" Long, Packs of 25	1 Pack	1
11	93286A044 Aluminum Washer, Oversized, 1/4" Screw Size, 0.261" ID, 0.5" OD, Packs of 5	5 Packs	5
12	94191A250 Mil. Spec. High-Strength Steel Hex Nut, Grade 8, 5/16"-24 Thread Size, MS-51968-6, Packs of 25	1 Pack	1
13	90081A107 Zinc-Plated Steel Screw Nails for Metal, Plastic and Plywood, Size 4, 5/16" Long, Packs of 100	1 Pack	1
14	90081A074 Zinc-Plated Steel Screw Nails for Metal, Plastic and Plywood, Size 2, 1/8" Long, Packs of 100	1 Pack	1
15	91595A112 Alloy Steel Dowel Pin, 3mm Diameter, 12mm Long, Packs of 50	2 Packs	2
16	3555T51 Galvanized Steel Safety-Pin Shackle - for Lifting, 1/2" Thick	6 Each	6
17	3896T31 Wire Rope Compression Sleeve for 1/16" Rope Diameter - Not for Lifting, Packs of 50	4 Packs	4
21	94895A815 High-Strength Steel Hex Nut, Grade 8, Zinc Yellow-Chromate Plated, 3/8"-24 Thread Size, Packs of 100	1 Pack	1
22	3339T2 Protector for 2" Wide Web Sling	8 Each	8
24	90591A151 Zinc-Plated Steel Hex Nut, Medium-Strength, Class 8, M6 x 1 mm Thread, Packs of 100	1 Pack	1
25	3001T54 Forged Galvanized Steel Turnbuckle, Clevis-to-Clevis, 2200 lbs. Capacity, 13.5" Retracted Length	10 Each	10

DAS
38
9-89

35

Packing List

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO041445
Order Placed By
Chantal Lavoie

McMaster-Carr Number
3134041-04

Page 2 of 2
10/25/2018

Line	Product	Ordered	Shipped
26	91732A233 Stainless Steel Helical Insert, 5/16"-24 Right-Hand Thread, 0.469" Long, Packs of 10	3 Packs	3
27	92185A673 Super-Corrosion-Resistant 316 Stainless Steel Socket Head Screw, 3/8"-24 Thread Size, 1" Long, Packs of 1	6 Packs	6
28	98017A200 18-8 Stainless Steel Mil. Spec. Washer, Passivated, 3/8" Screw Size, NAS 1149-C0663R, Packs of 100	1 Pack	1
29	98017A600 18-8 Stainless Steel Mil. Spec. Washer, Passivated, Number 2 Screw Size, NAS 1149-Cn216R, Packs of 500	1 Pack	1

Shipped separately from our Chicago warehouse on 10/25

23	91280A334 Medium-Strength Class 8.8 Steel Hex Head Screw, Zinc-Plated, M6 x 1 mm Thread, 25 mm Long	1 Pack	1
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Expected to ship

9	8662A61 Combination Dial Plunger-Style Variance Indicator with NIST Certificate & 0" to 1" Measuring Range	4 Each	4 Nov 1-14
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